

KOSTENKO, I.

Miniature helicopters are at the start. Kryl.rod. 13 no.4:29
Ap '62. (MIRA 15:5)

1. Predsedatel' seksii aviamodel'nykh issledovaniy
Moskovskogo aviamodel'nogo kluba.
(Moscow--Helicopters--Models)

KOSTENKO, I., kand. tekhn. nauk

Promote the development of airplane modeling. Kryl. rod. 13
no.10:12 0 '62. (MIRA 15:10)

(Airplanes—Models)

L 44231-66 EWT(d)/EWT(m)/EWP(h)

ACC NR: AP6023452

SOURCE CODE: UR/0085/66/000/007/0018/0018

AUTHOR: Kostenko, I. (Candidate of technical sciences)

36

ORG: none

B

TITLE: Oldest glider designer

SOURCE: Kryl'ya rodiny, no. 7, 1966, 18

TOPIC TAGS: ^{aeronautic personnel,} powered glider, glider / Sh-20 glider

ABSTRACT: Boris Nikolayevich Sheremetev, one of the oldest designers in Soviet aviation, in his 75th year designed the two-seater Sh-20 training glider, which is equipped with a pusher propeller and a 65-hp engine. It has a wingspan of 19.1 m, a wing length of 7.85 m, a wing area of 18.87 m², an overall length of 19.3 m, a flight weight of 650 kg, a take-off speed of 95 km/hr, a climbing speed of 2.2 m/sec, a minimum landing speed of 1.3 m/sec, and a maximum aerodynamic efficiency of 23. Seating is tandem, with the trainee in the forward seat and the instructor in the rear. The glider, with an all-metal twin-boom fuselage and the engine placed aft of the wings between the booms, rises to 500 m under engine power, the engine is cut off, the propellers are folded back, and it changes over to soaring flight. Orig. art. has: 1 figure. [WH]

SUB CODE: 01ps/SUBM DATE: none

Card 1/1/117

KOSTENKO, I.

Tales told by the postage stamps. IUn.tekh, 7 no.11:32 N '62.
(MIRA 15:12)
(Postage stamps—Topics—Airplanes)

L 18934-63

BDS JXT(K)

ACCESSION NR: AP3004389

S/0084/63/000/007/0023/0023

AUTHOR: Kostenko, I.

50

TITLE: Address — the City of Krivoy Rog

SOURCE: Grazhdanskaya aviatsiya, no. 7, 1963, 23

TOPIC TAGS: Krivoy Rog Aviation School, Aeroflot, foreign student, training field

ABSTRACT: The Krivoy Rog Aviation School of the Aeroflot special services is only 10 years old, but has already graduated 100 qualified aviation specialists, now working at Ukrainian, Middle Asia, Siberian and Far East airports. It is now Aeroflot's largest secondary training school. Recently, two new 4-story buildings have been constructed for teaching and lab work. The labs are equipped with everything necessary to study modern airfield and aircraft technology; the students have a training airfield to study special equipment, both on piston and jet planes. The school trains specialists both for the Aeroflot and for the civilian aviation of the countries friendly to the Soviet Union. In 1963 graduation diplomas from the Krivoy Rog Aviation School were given to men from the Mongolian PR, the Republics of Ghana and Mali. Every year aviation specialists are also retrained for operation of the latest equipment of the Soviet Civil Air Fleet and civilian aviation of the

Card 1/2

L 18934-63

ACCESSION NR: AP3004389

neighboring countries. In 1961-62, men from Rumania, the GDR, Bulgaria and other countries took courses. The school offers extension courses.
[Abstracter's note: Essentially complete translation.]

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 20Aug63

ENCL: 00

SUB CODE: AC

NO REF SOV: 000

OTHER: 000

Card 2/2

IVANOV, N.V. (Kiyev, poselok Korshovatoye); KOSTENKO, I. (Vitebsk);
PROSKURA, I.F. (Kerch')

Statements by workers in keramzit enterprises. Stroi. mat. 10
no.9:36-37 S '64 (MIRA 18:2)

1. Glavnyy inzh. Korshovatskogo zavodoupravleniya (for Ivanov).
2. Nachal'nik konstruktorskogo byuro Vitebskogo kombinata stroitel'nykh materialov (for Vitebsk).
3. Rukovoditel' laboratorii legkikh zapolniteley i stroitel'noy keramiki Krymskogo filiala Gosudarstvennogo nauchno-issledovatel'skogo instituta stroitel'nykh materialov i izdeliy. (for Proskura).

KOSTENKO, I.A.

Treatment of children having had poliomyelitis in the health resort of Yeysk. Vop.okh.mat.1 det.7 no.12:80 D'62.(MIRA 16:7)

1. Iz kafedry detskikh bolezney Kubanskogo meditsinskogo instituta i detskogo bal'neologicheskogo sanatoriya kurorta Yeysk.
(CHILDREN---DISEASES) (GYNECOLOGY)

SKICKIN, B.V., MAKAROV, I.P., LAPIDAR, M.M., BODYAKOVA, V.V.,
KOTENKO, I.P.

Studying the economic efficiency of high-capacity blast
furnace operations. Sbor. trudi. KNT/ChM No. 47:85-90 '85.
(MIRA 18-9)

KOSTENKO, I. G.

DECEASED

1963/3

TRANSPORTATION

(c1962)

BAKULEV, A.N.; RYNEYSKIY, S.V.; SAVEL'YEV, V.S.; BUYANOV, V.M.;
ZUBAREV, R.P.; KOMAROV, B.D.; KOSTENKO, I.G.; MOROZOV, Yu.I.

New method for extracorporeal blood circulation. Grud. khir.
2 no.4:3-5 JI-Ag '60. (MIRA 15:6)

1. Iz kliniki fakul'tetskoy khirurgii imeni Spasokukotskogo
(dir. - akademik A.N. Bakulev) II Moskovskogo meditsinskogo
instituta imeni N.I. Pirogova. Adres avtorov: Moskva, Leninskiy
prosp., d.8, Institut grudnoy khirurgii.
(BLOOD--CIRCULATION, ARTIFICIAL)

SAVEL'YEV, V.S. (Moskva, Pervomayskaya ul., d.122, kv.2); KOSTENKO, I.G.

Surgical treatment of patent ductus arteriosus in conjunction
with acquired mitral and tricuspid stenoses. Grud. khir. 3 no.1:
96-99 Ja-F '61. (MIRA 16:5)

1. Iz fakul'tetskoy khirurgicheskoy kliniki imeni S.I.Spasokukhovicha
(dir. - akademik A.N.Bakulev) II Moskovskogo meditsinskogo instituta
imeni N.I. Pirogova (dir. - dotsent M.G.Sirotkina).
(DUCTUS ARTERIOSUS) (HEART--VALVES--DISEASES)

KOSTENKO, I.G., kand.tekhn.nauk, dotsent

Determining the number of transfers to the freight yards. Trudy
MIIT no.127:53-60 '61. (MIRA 18:3)

SIROTKINA, M.G.; KOSTENKO, I.G.

Disorders of cardiac activity in reconstructive and plastic operations on the upper vena cava. Grud.khir. no.4:58-64 J1-Ag '62. (MIRA 15:10)

1. Iz kliniki fakul'tetskoy khirurgii imeni S.I.Spasokukotskogo (sav. - akad. A.N.Bakulev) i kafedry operativnoy khirurgii (sav. - prof. G.Ye.Ostroverkhov) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova. Adres avtorov: Moskva, V-49, Leninskiy prosp., d. 8. I Gradskaya bol'nitsa.

(ELECTROCARDIOGRAPHY)
(VENA CAVA--SURGERY)

DUMPE, E.P.; KOSTENKO, I.G.

Aortic arch syndrome (Takayasu disease, pulseless disease).
Kardiologiya 4 no.3:64-70 My-Je '64. (MIRA 18:4)

1. Fakul'tetskaya khirurgicheskaya klinika lechebnogo fakul'teta
(dir. - akademik A.N.Bakulev) II Moskovskogo meditsinskogo instituta
imeni Pirogova i 1-y gorodskoy klinicheskoy bol'nitsy imeni Pirogova
(glavnyy vrach - zasluzhennyy vrach RSFSR L.D.Chernyshev).

BAKULEV, A.N.; SAVEL'YEV, V.S.; SAVCHUK, B.D.; KOSTENKO, I.G.; IGNATENKO, S.N.

Indications for a permanent electric stimulation of the heart in atrio-ventricular blocks. Grud. khir. 6 no.2:3-10 Mr-Ap '64. (MIRA 18:4)

1. Klinika fakul'tetskoy khirurgii imeni Spasokukotskogo (dir. - akademik A.N.Bakulev) II Moskovskogo meditsinskogo instituta imeni Pirogova. Adres avtorov: Moskva V-49, Leninskiy prospekt, d.8. I-ya Moskovskaya gorodskaya bol'nitsa.

KOSTENKO, I. K.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 573 - I

BOOK

Call No.: AF342328

Author: KOSTENKO, I. K. and MIKIRTUMOV, E. B., Editors

Full Title: RECORD AIRCRAFT MODELS

Transliterated Title: Rekordnyye letayushchiye modeli

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry
(Oborongiz)

Date: 1950 No. pp.: 242

No. of copies: 11,000

Editorial Staff: None

PURPOSE: A textbook and handbook for aviation modelers and for instructors of aviation modeling centers.

TEXT DATA

Coverage: This book contains descriptions of Soviet flying models, which broke many national and international records and therefore represent the best Soviet achievement in this field. The book contains working drawings and specifications for the construction of several flying models. In the appendix several tables give geometrical characteristics of several recommended airfoils. Diagrams, graphs, photos, tables.

No. of References: 59 Russian, 1877-1949

Facilities: None

1/1

KOSTENKO, I.

Prosteishie letaiushchie modeli (Simple flying models). Moskva, 1953. 28 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

KOSTENKO, I., kandidat tekhnicheskikh nauk.

Aerodynamic calculation for the flying model; speed of flight and descent.
Kryl.rod. 4 no.8:16-17 Ag '53. (MLRA 6:7)

(Airplanes--Models)

KOSTENKO, I., kandidat tekhnicheskikh nauk.

~~SECRET~~

Aerodynamic calculations for the flying model. Kryl.rod. 4 no.11:14-15 M
'53. (MLRA 6:11)

(Airplanes--Models)

KOSTENKO, I.; MIKIRTUMOV, B.; KONDRAT'YEVA, M., redaktor; BODROV, A.,
tekhnicheskiiy redaktor.

[Model airplanes] Letaiushchie modeli. Moskva, Izd-vo TsK VLSM
"Molodaia gvardiia," 1954. 84 p. (Microfilm) (MLBA 7:12)
(Airplanes--Models)

KUMANIN, V.; RYVKIN, P.; KHODKEVICH, E.; SOKOLOV, Yu.; KOSTENKO, I.;
KUPFER, M.; VASIL'YEV, A.; POSTNIKOV, Yu.; TARAKANOV, A.

More attention to plane modelina as a sport; letter to the editor.
Kryl.rod. 5 no.12:16 D '54. (MLRA 7:12)
(Airplanes---Models)

AID P - 2319

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 24/24

Author : Kostenko, I., Kand. of Tech. Sci.

Title : Scale models of Soviet aircraft

Periodical: Kryl. rod., 6, Insert, Je 1955

Abstract : The following seven Soviet aircraft are briefly described, and their diagrams given: AK-1, ANT-2, Ya-6, PO-2, Sh-2, G-10.

Institution: None

Submitted : No date

AUTHOR: Kostenko, I., Candidate of Technical Sciences 84-12-46/49

TITLE: Agricultural Aviation in the USA (Sel'skokhozyaystvennaya aviatsiya SSHA)

PERIODICAL: Grazhdanskaya aviatsiya, 1957, ¹⁴Nr 12, pp 36-37 (USSR)

ABSTRACT: A fairly detailed account based on information published by "American Aviation."

AVAILABLE: Library of Congress

Card 1/1

1(2)

PHASE I BOOK EXPLOITATION

SOV/1208

Kostenko, Igor' Konstantinovich

Proyektirovaniye i raschet modeley planerov (Design and Analysis of Model Gliders) Moscow, Izd-vo DOSAAF, 1958. 199 p. (Series: Biblioteka yunogo konstruktora) 23,000 copies printed.

Ed.: Yefremova, Ye.V.; Tech. Ed.: Karyakina, M.S.

PURPOSE: This book is intended for model airplane builders who have already learned how to build simple flying models and want to construct new models of their own design.

COVERAGE: The book presents the principles of aerodynamics as applied to flying models and describes methods for their design not requiring any very complicated computations. There are 8 appendixes, 152 figures, and 8 tables. The book contains 29 references, of which 14 are Soviet, 9 English, 4 German, and 2 Czech.

TABLE OF CONTENTS:

Ch. I. Aerodynamics of a Model Glider
1. Basic requirements for a model glider
Card 1/5

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3

KOSTENKO, I. K.

85-58-5-27/38

AUTHOR: Kostenko, I.K., Candidate of Technical Sciences

TITLE: Stability and Balancing of Free Flight Models (Ustoychivost' i balansirovka modeley svobodnogo poleta)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 5, pp 25-28 (USSR)

ABSTRACT: The article is a report read by the author at a conference of model-airplane builders called by the editors of Kryl'ya rodiny and the Byuro Vsesoyuznoy aviamodel'noy sekti (Office of the All-Union Model-Airplane Building section) in Moscow. There are 11 drawings.

AVAILABLE: Library of Congress

Card 1/1 1. Airplanes - Models - Conference

KOSTENKO, Igor' Konstantinovich; SIDOROV, Orest Aleksandrovich;
SHEREMETEV, Boris Nikolayevich; YEFREMOVA, Ye.V., red.;
BLAZHENKOVA, G.I., tekhn.red.

[Foreign gliders] Zarubezhnye planery. Moskva, Izd-vo
DOSAAF, 1959. 159 p. (MIRA 13:2)
(Gliders (Aeronautics))

KOSTENKO, I.

Airplanes on stamps. IUn.tekh. 4 no.12:33-34 D '59.
(MIRA 13:4)
(Postage stamps)

1(

SOV/85-59-12-34/38

AUTHOR: Kostenko, I., Candidate of Technical Sciences

TITLE: Successes of Our Friends

PERIODICAL: Kryl'ya rodiny, 1959, Nr 12, pp 27-29 (USSR)

ABSTRACT: The author describes Polish gliders, airplanes and helicopters, and lists a number of Polish-made aircraft instruments exhibited at the Polish Industrial Exhibition held in the Central Park of Culture and Rest in Moscow, last fall. Structural and performance data on the aircraft are consolidated in two tables. The Polish gliders shown included "Jaskolka" designed by T. Kostij, "Mucha-100" designed by Okarmus, Bandura and Dyrka, "Mucha-Standard" designed by engineer V. Nowakowski and Gruzewicz, "Bocian" designed by Wasilewski, Zatwordnicki and Sandauer, "Gil", "SZD-25 Lis", "SZD-29 Foka", "SZD-20X Wampir" and "SZD-19 Zefir". Helicopters were represented by

Card 1/2

SOV/85-59-12-34/38

Successes of Our Friends

a few variants of the "SM-1" (imitation of Soviet Mi-1 designed by M.L. Mil'). They are built at the Polish Helicopter Plant "PZL". Airplanes for agricultural purposes were represented by "PZL-101" (imitation of Soviet Yak-12 designed by A.S. Yakovlev) and PZL-102 "Kos". The all-metal two-seater sport airplane TS-8 "Bis" with cantilever lower wing powered by the Polish radial engine "WN-3", 340 HP, was also displayed. Specimens of Polish built glider and airplane equipment, such as the "BS-1" compass, "PRN-150S", "PR-250S and "W-12S" speedometers, "WRm-10", "WPS-5" and "WRS-30" climb indicators, "Chd-2" clinometer and several other devices were also shown at the exhibition. There are 5 photos, 2 tables, and 3 sets of drawings.

Card 2/2

Aircraft Modeling (Cont.)

SOV/4020

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Soaring Model (Pavlov, P.)	66
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Model Airplane of the "Flying Wing" Type (Kupfer, M.)	73
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Aircraft Modeling (Cont.)

SOV/4020

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Needle-less Carburetor (Tatsiturnov, V.)	114
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Advice on Building of Flying Scale Models of Aircraft (Khukhra, Yu.)	129
Scale Model of the Yak-12R	129

Card 5/6

KOSTENKO, I., kand.tekhn.nauk

Small planes in the air. Kryl.rod. 12 no.6:27 Je '61.

(MIRA 14:6)

1. Predsedatel' sektsii modeley novykh skhem i aviamodel'nykh
issledovaniy Moskovskogo aviamodel'nogo kluba.
(Airplanes--Models)

KOSTENKO, I.K., slesar'-avtomatchik; ZAGINAYKO, Ye.V., slesar'-avtomatchik

Screw-valve type cock for the scavenging of the main air drum.
Elek. i tepl. tiaga 9 no.11:22 N'65. (MIRA 19:1)

1. Lokomotivnoye depo Kishinev.

KOSTENKO, I.O.

Universal counterflow sirup separator. Kharch.prem. no.4:77-78 0-D
'63. (MIRA 17:1)

KOSTENKO, I. P.

"Antierosive Effects of the Herbaceous and the Arboreal Vegetation on Cretaceous Slopes in the Forest-Steppe." Min. Higher Education USSR, Voronezh Forestry Inst., Voronezh, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

KOSTENKO, I. R.

USSR/Cultivated Plants. Technical Plants. Oil and II
Sugar Bearing Plants.

Abs Jour : Ref Zhur-Biol., No 15, 1953, 68275

Author : Kostenko, I. R.

Inst : -

Title : An Experiment in Drying Cotton in the
Kolkhozes of the Uzbek SSR.

Orig Pub : Khlopkovodstvo, 1957, No 9, 31-35

Abstract : No abstract.

Card : 1/1

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~~APPROVED FOR RELEASE: 06/14/2000~~ CIA-RDP86-00513R000825210012-0

~~APPROVED FOR RELEASE: 06/14/2000~~ ~~Ukrainian Agronom Uzbekskoy SSR, L.M. L.M.,~~
~~Ukrainian Agronom Uzbekskoy SSR, L.M. L.M.,~~

New method of using ethylmercaptodithyldiethylthiophosphate for
controlling sucking cotton insects. Zashch. rast. ot vred. i bol.
3 no.3:35-36 My-Je '58. (MIRA 11:6)

1. Nachal'nik Upravleniya zashchity rasteniy Ministerstva sel'skogo
khozyaystva UzSSR (for Kostenko). 2. Nachal'nik Ferganskogo otryada
Upravleniya zashchity rasteniy Ministerstva sel'skogo khozyaystva
UzSSR (for L.M. L.M.).

(Ethyl thiophosphate) (Cotton—Diseases and pests)

KOSTENKO, I.R., zasluzhennyy agronom UzSSR.

Plant protection of Uzbekistan on a new course. Zashch.rast.
ot vred. i bol. 4 no.1:6-9 Ja-F '59. (MIRA 12:2)
(Uzbekistan--Plants, Protection of)

KOSTENKO, I.R. (Tashkent); NESTEROV, Yu.B. (Tashkent)

Improve methods for forecasting main cotton pests.
Zashch. rast. ot vred. i bol. 7 no.7:45-47 J1 '62.

(MIRA 15:11)

1. Nachal'nik Upravleniya zashchity rasteniy Ministerstva
proizvodstva i zagotovok sel'skokhozyaystvennykh produktov
Uzbekskoy SSR (for Kostenko). 2. Rukovoditle' respublikanskogo
sektora sluzhby ucheta i prognozov Upravleniya zashchity rasteniy
Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh
produktor Uzbekskoy SSR (for Nesterov).

(Uzbekistan—Cotton—Diseases and pests)
(Uzbekistan—Insects, injurious and beneficial)

KOSTENKO, I. R., zasluzhennyy agronom Uzbekistana

Problems in Uzbekistan. Zashch. rast. ot vred. i bol. 5
no.5:3-7 My (60. (MIRA 16:1)

1. Nachal'nik Upravleniya zashchity rasteniy UzSSR.

(Uzbekistan--Plants, Protection of)

KOSTENKO, I.R., zasluzhennyy agronom respublik (Tashkent)

One year's work according to the new system. Zashch. rast. ot
vred. i bol. 6 no.7:10-12 JI '61. (MIRA 16:5)

1. Nachal'nik Upravleniya zashchity rasteniy Ministerstva sel'skogo
khozyaystva Uzbekskoy SSR.
(Uzbekistan--Plants, Protection of)

USPENSKIY, F.M., kand. biol. nauk; SOMOV, I.A.; MUMINOV, A.M.,
kand. sel'khoz. nauk; IVANOV, Ye.N., kand. biol. nauk;
VASIL'YEV, A.A., kand. sel'khoz. nauk; SOLOV'YEVA, A.I.,
kand. sel'khoz. nauk; ZAPROMETOV, N.G., doktor sel'khoz.
nauk; YAKHONTOV, V.V., doktor biol. nauk; KAPUSTINA, R.I.;
STROMM, N.G.; POLEVSHCHIKOVA, V.N., kand. sel'khoz. nauk;
KARIMOV, M.A., doktor biol. nauk; NOSKOV, I.G., kand. sel'-
khoz. nauk; KHODZHAYEV, A.Kh.; ALEYEV, B.G., kand. sel'khoz.
nauk; YAKHONTOV, V.V., doktor biol. nauk; STEPANOV, F.A.;
LYUBETSKIY, Kh.Z., kand. med. nauk; GUREVICH, B.E.;
KONDRAT'YEV, V.I.; SUDARS, L.P.; KOSTENKO, I.R., zasl. agr.
Uzbekskoy SSR; GORELIK, I.M., red.; BAKHTIYAROV, A., tekhn.
red.

[Manual on controlling the pests, diseases and weeds of cot-
ton, corn, and legumes] Spravochnik po bor'be s vreditel'ny
i boleznyami khlopatnika, kukurusy i bobovykh kul'tur. Izd.2.,
perer. i dop. Tashkent, Gos.izd-vo UzSSE, 1963. 325 p.

(MIRA 16:5)

(Field crops—Diseases and pests)
(Weed control)

KOSTENKO, K. (g. Stalino)

Underground runners. IUn.tekh. no.7:60-63 Je '57. (MLRA 10:7)
(Shaft sinking)

KOSTENKO, K. (Zhdanov)

Donetskaiia-Komsomol'skaia blast furnace. IUn.tekh. 3 no.12:
12-18 D '58. (MIRA 12:1)

(Zhdanov--Blast furnaces)

KOSTENKO, K., polkovnik.

Deactivating an ammunition depot at Kursk. Voen.-inzh. zhur. 101
no.2:28-33 P '58.

(MIRA 11:3)

(Kursk--Explosives, Military)

16, 5800

43332

S/044/62/000/011/021/064
A060/A000

AUTHOR: Kostenko, K.S.

TITLE: System of differential equations, invariant relative to a noneuclidean group of motions

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, 54, abstract 11B219 (Zb. robit aspirantiv Mekhan.-matem. ta fiz. fak. L'vis'k. un-t, 1961, no. 1, 73 - 76; Ukrainian)

TEXT: Let $A(x, \frac{\partial}{\partial x})u + \lambda u = 0$ (1)
be a system of four differential equations of the second order, where $A(x, \frac{\partial}{\partial x})$ is a matrix differential operator, $u(x)$ is the column of unknown functions, λ is any real parameter. Let, moreover, the domain of variation of the arguments be a sphere of radius R with its center at the origin of coordinates. The point $y_1(0, 0, 0, R)$ may, by means of a transformation of the form

$$T_x = \frac{1}{R} \begin{pmatrix} x_4 & x_3 - x_2 & x_1 \\ -x_3 & x_4 & x_1 & x_2 \\ x_2 - x_1 & x_4 & x_3 \\ -x_1 - x_2 - x_3 & x_4 \end{pmatrix} \quad (2)$$

Card 1/6

System of differential equations, invariant

S/044/62/000/011/021/064
A060/A000

be translated into a point of the sphere $x(x_1, x_2, x_3, x_4)$: $x = T_x y$. (3)
The transformation matrix (transformation) T_x is orthogonal and has an inverse.
Let φ be any transformation translating a point y of the sphere into a point x
of the same sphere, $x = \varphi y$, (4) T_x is a special case of φ , and therefore
 $\varphi y_1 = T_x y$, $y = T_x^{-1} \varphi y_1$. (5). The transformation $P = T_x^{-1} \varphi$ (6) leaves
the axis OX_4 unmoved. Consequently, (4) is a rotation about the axis OX_4 . The
paper gives three matrices whose product realizes the transformation P . The sys-
tem of differential equations is called invariant relative to the φ transforma-
tion, provided that:

$$\varphi \sum_{k,l=1}^4 A_{kl}(y) \frac{\partial x_l}{\partial y_k} \frac{\partial x_l}{\partial y_1} \varphi^{-1} = A_{1j}(x), \quad \varphi \sum_{k=1}^4 A_k(y) \frac{\partial x_1}{\partial y_k} \varphi^{-1} = A_1(x), \quad (7)$$

$$\varphi A_0(y) \varphi^{-1} = A_0(y).$$

Proceeding from definition (6) the author obtains the identity

$$\sum_{i,j=1}^4 A_{ij}(y) \frac{\partial x_k}{\partial y_i} \frac{\partial x_1}{\partial y_j} = P \sum_{i,j=1}^4 A_{ij}(y) \frac{\partial x_k}{\partial y_i} \frac{\partial x_1}{\partial y_j} P^{-1}, \quad (8)$$

Card 2/6

System of differential equations, invariant

S/044/62/000/011/021/064
A060/A000

from which, by differentiating it with respect to φ_k ($k = 1, 2, 3, 4$) and setting each time $\varphi_k = 0$, he obtains a concrete form for the matrix A_{ij} . Further, the author considers a system analogous to (1) and assumes it to be invariant relative to rotation in a four-dimensional space, where the rotation is orthogonal relative to the vector x (x_1, x_2, x_3, x_4). Then the solution column v will be such:

$$v = \begin{pmatrix} v_1 \\ v_2 \\ v_3 \\ 0 \end{pmatrix}.$$

The author introduces a spherical system of coordinates: $x_1 = R \cos \alpha_1$, $x_2 = R \sin \alpha_1 \cos \alpha_2$, $x_3 = R \sin \alpha_1 \sin \alpha_2 \cos \alpha_3$, $x_4 = R \sin \alpha_1 \sin \alpha_2 \sin \alpha_3$, $R = \text{const}$, and, after some calculations, reduces the problem to a system of three equations with three unknowns

$$\sum_{i,j=1}^3 A'_{ij} \frac{\partial v}{\partial \alpha_i \partial \alpha_j} + \sum_{i=1}^3 A'_i \frac{\partial v}{\partial \alpha_i} + A'_0 v = 0,$$

which turns out to be invariant with respect to rotation on the four-dimensional

Card 3/6

System of differential equations, invariant

S/044/62/000/011/021/064
A060/A000

sphere with radius R. Here he obtains:

$$A'_{11} = \begin{pmatrix} a_{11}^{11}(R) & 0 & 0 & 0 \\ 0 & a_{22}^{11}(R) & 0 & 0 \\ 0 & 0 & a_{22}^{11}(R) & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix},$$

$$A'_{12} = \begin{pmatrix} 0 & a_{12}^{12}(R) & 0 & 0 \\ \frac{a_{12}^{12}(R)}{\sin^2 \alpha_1} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix},$$

Card 4/6

S/044/62/000/011/021/064

A060/A000

System of differential equations, invariant

$$A'_{13} = \begin{pmatrix} 0 & 0 & a_{12}^{12}(R) & 0 \\ 0 & 0 & 0 & 0 \\ \frac{a_{12}^{12}(R)}{\sin^2 \alpha_1 \sin^2 \alpha_2} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix},$$

$$A'_{22} = \begin{pmatrix} \frac{a_{22}^{11}(R)}{\sin^2 \alpha_1} & 0 & 0 & 0 \\ 0 & \frac{a_{11}^{11}(R)}{\sin^2 \alpha_1} & 0 & 0 \\ 0 & 0 & \frac{a_{22}^{11}(R)}{\sin^2 \alpha_1} & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix},$$

Card 5/6

System of differential equations, invariant

S/044/62/000/011/021/064
A060/A000

$$A'_{23} = \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{a_{12}^{12}(R)}{\sin^2 \alpha_1} & 0 \\ 0 & \frac{a_{12}^{12}(R)}{\sin^2 \alpha_1 \sin^2 \alpha_2} & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix},$$

$$A'_{33} = \begin{pmatrix} \frac{a_{22}^{11}(R)}{\sin^2 \alpha_1 \sin^2 \alpha_2} & 0 & 0 & 0 \\ 0 & \frac{a_{22}^{11}(R)}{\sin^2 \alpha_1 \sin^2 \alpha_2} & 0 & 0 \\ 0 & 0 & \frac{a_{11}^{11}(R)}{\sin^2 \alpha_1 \sin^2 \alpha_2} & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix},$$

Card 6/6

[Abstracter's note: Complete translation]

A.S. Fokht

FIGULEVSKIY, G.V.; KOSTENKO, V.G.; KOSTENKO, L.D.

Ascertaining the structure of abietinol. Zhur.ob.khim. 31
no.9:3143 S '61. (MIRA 14:9)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Abietyl alcohol)

FIGULEVSKIY, G.V.; KOSTENKO, V.G.; KOSTENKO, L.D.

Elucidation of the structure of abienol. Zhur.ob.khim.
32 no.2:656 F '62. (MIRA 15:2)
(Alcohols)

KOSTENKO, L.M.; POSOKHOV, Ye.V.

Some data on the chemical composition of Cretaceous underground waters
in the northern part of the Terek-Kuma artesian basin. Trudy NPI 156:
95-105 '64. (MIRA 18:7)

KOSTENKO, M., akademik, deputat Verkhovnogo Soveta SSSR, laureat Leninskoy
premi

Strengthen the contact of science with industry. Sov.profsciency 7
no.4:27-28 Mr '59. (MIRA 12:4)

1. Direktor Instituta elektromekhaniki AN SSSR.
(Engineering research)

ZGURSKIY, Anatoliy Yefimovich; SHERSTYUK, Rudol'f Onisiforovich;
KOSTENKO, M.A., red.; KRYZHOVA, M.L., red.izd-va; TURKINA,
Ye.D., tekhn.red.

[Inductive transducer for determining the number of steel rods]
Induktivnyi datchik dlia opredeleniia kolichestva stal'nykh
stershnei. Sverdlovsk, Gos.nauchno-tekhn.izd-vo po cherno
i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1960. 18 p.

(Transducers)

(Metal detectors)

(MIRA 14:6)


S/009/60/000/008/004/005
B027/B076

AUTHORS: Gurova, T. I., Kostenko, M. A., Shilin, A. K.

TITLE: Lithology and reservoir properties of the rocks of the
Tyumen' layer in the southeastern part of the West Siberian
Lowland

PERIODICAL: Geologiya nefti i gaza, no. 8, 1960, 23-27

TEXT: On the basis of investigations of the structures and morphology of the Mesozoic deposits in the West Siberian Lowland as well as of the study of core samples from numerous borings it was ascertained that the sand-silt rocks in the Lower and Middle Jurassic (Tyumen' layer) are the most interesting as possible oil and gas reservoir rocks. In all investigated cross sections this layer shows coal-bearing continental sediments with alternating gravel, sandstone, silt, argillites. In view of the lithological composition and the physical properties of the rock species it can be assumed that various reservoir rocks are present. According to the classification of P. P. Avdusin and M. A. Tsvetkova



Card 1/2

KOSTENKO, M.A.

Meter for the speed of welding of large cross section pipe.
Avtom.svar. 18 no.11:60-62 N '65.

(MIRA 18:12)

1. Spetsial'noye proyektno-konstruktorskoye byuro tresta
"Uralmontazhavtomatika". Submitted April 19, 1965.

S/130/61/000/009/005/005
A006/A101

AUTHORS: Volkov, V.V.; Gutnikov, E. Yu.; Kostenko, M. A.

TITLE: Electronic automatic control device for pipe rolling mills

PERIODICAL: Metallurg, ⁶no. 9. 1961. 28-31

TEXT: The special designing office at "Uralmontazhavtomatika" Trust in cooperation with the Pervoural'skiy Novotrubnyy zavod (New Pipe-rolling Plant) has automated the "140 no.3" pipe rolling mill by automation of the long-running pneumodrives of the support bearings and of the clamping device of the burnishing stands. Optimum automatic control of the pneumodrive was only possible with the aid of a specially developed electronic computer (ERU). The operation of the control system is demonstrated on the example of the piston back stroke (Fig. 2). Air is supplied to the right hand cylinder hollow of the pneumodrive and the piston is driven away. At point x_t the right hand hollow of the cylinder is open to air access and air is supplied to the left hand hollow as a counter-pressure brake. The coordinate of point x_t is selected in such a manner that the piston will be stopped in the extremal position (point l_0); the left hand hollow is then open to air access. The coordinate of point x_t depends generally

Card 1/3

Electronic automatic control device ...

S/130/61/000/009/005/005
A006/A101

on factors affecting the pneumodrive motion. The coordinates of x_t for each piston stroke are determined by the computer units of the electronic device, i.e. electronic time relays with automatic control of the forward and back stroke interval. A point with a fixed coordinate (x_k) is selected on the piston trajectory. Values of air pressure and piston speed, when passing through this point, are determined by pickups and the computer units calculate the time gap within which the piston is at point x_t when the stop command is given. The information from the pickups is supplied to the control system which is shown in a block diagram. Reduction of pipes by the pressure device is controlled by maintaining constant the motor load of the main drive for each pipe profile. The electronic control device of the motor load $\mathcal{P}H$ (ERN) is the main link of the automatic control system of pipe reduction using the current of the rolling-mill motor. A d-c transformer is used as a pickup of the motor load, and an asynchronous short-circuit electric motor of the pressure device is employed as servo mechanism. An electronic time relay supplies the command for the disjunction of rolls to a given magnitude to adjust the clamping of the pipe to be rolled. As a result of the automated process, the efficiency of the unit was raised by 5 - 6% liberating 12 attendants. There are 4 figures.

ASSOCIATION: SPKB tresta "Uralmontazhavtomatika" (Special Planning and Designing Office at "Uralmontazhavtomatika" Trust)

Card 2/3

VOLKOV, Vasil'y Vladimirovich; GUTNIKOV, Eduard Yul'yevich; ~~KOSTENKO~~,
Mikhail Afanas'yevich; ~~DRALYUK, B.N., retsennant~~; SYRCHINA,
M.M., red. izd-va; MAL'KOVA, N.T., tekhn. red.

[Automatic control of a long-stroke pneumatic drive] Avtoma-
ticheskoe upravlenie dlinnokhodovym pnevmoprivodom. Sverd-
lovsk, Metallurgizdat, 1962. 69 p. (MIRA 15:7)

(Electronic control)

(Pipe mills--Pneumatic driving)

L 55200-65

EWT(1)/EWA(h) Feb

Y. V. Kostenko, M. A. Volkov, I. M.

Registering electrical pulses

Abstract: Avtenty i tovarnykh znakov, n. 1, 1965.

pulse storage, voltage amplifier

ABSTRACT: This Author Certificate presents a device for registering electrical pulses passing in a random order through several circuits. To simplify the circuit and to obtain a conversion for the number of pulses entering the input into a voltage, the device contains one capacitor at each input. Each capacitor is connected through a diode to a common storage capacitor with a discharge circuit (see Fig. 1 on the Enclosure). The voltage from the capacitor is supplied to an amplifier input. The amplifier output is connected through a diode to the common lead of the storage capacitors for their recharging. Orig. art. has: 1 figure.

AF 501246

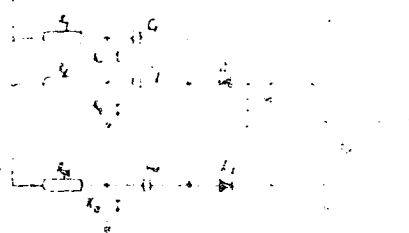


Fig. 1.

KOSTENKO M.I.

ZALESOV, A.A.; KOSTENKO, M.I.; MARGULIS, D.K.; DEM'YANOVICH, A.N., inzhener,
redaktor; LOSKUTOV, V.V., kandidat tekhnicheskikh nauk, retsentsent;
DUGINA, N.A., tekhnicheskii redaktor.

[Diamondless dressing of grinding wheels] Bezalmaznaia pravka shlifoval'-
nykh krugov. Pod red. A.N.Dem'ianovicha. Moskva, Gos.nauchno-tekhn. izd-
vo mashinostroit. lit-ry, 1952. 77 p. [Microfilm] (MLBA 7:10)
(Grinding wheels)

1. KOSTOMEC, M. I., MARULIS, D.
2. USSR {600}
4. Drilling and Spring
7. Rapid drilling of cast iron parts. Stan. i instr. 24 No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

MARGULIS, D. K., ZALISOV, A. A., KOSTENKO, M. K.

Gear-Cutting Machines

Rapid gear cutting., Stan. i instr., 23, no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

KOSTENKO, M. P.

"Commutator Alternating Current Motors," Part I, Leningrad, 1933

KOSTENKO, M. P. and ALEKSEYEV, A. Ye.

"Turbogenerators," Moscow-Leningrad, 1939

KOSTENKO, Mikhail Polievktovich

Kostenk , Mikhail Polievktovich, 1889-Electric machiner. A text-book
Moskva, Gos. energ. izd-vo, 1944-

(49-57209) TK2000.K6

CHA EDR36 0051310000

KOSTENKO, M. P.

At the plenary meeting of the conference of the Power Establishments of the Academies of Sciences of the Union Republics and of the Affiliates of the Academy of Science, USSR, the following paper was presented by Corresponding Member of the Academy of Science, USSR, M. P. Kostenko "The scientific problems of building electrical machinery".

SO: Elektrichestvo, No. 9 Moscow, Sept. 1947 (U-5534)

PROCESS AND PROPERTIES INDEX																									
1ST AND 2ND GROUPS													3RD AND 4TH GROUPS												
<p><i>SA</i> <i>B C</i> <i>c</i></p> <p>A.C. collector-type generator with frequency regulation independent of rotational speed. Kuznetsov, M. P. <i>Elektricheskoe</i> (No. 2) 7-27 (1949) In Russian.—The generator has a.c. excitation and a compensating winding connected via brushes and collector in series with the rotor winding. A survey of possible combinations of stator and rotor feed, auxiliary poles and their short windings, single- and multi-phase operation is given. An analysis of electric and magnetic forces and their relation to ω is presented, with winding schemes for different pitches. The problem of such resonance at varying speed is discussed, methods of speed and frequency adjustment and main applications are indicated. Practical types of such machines and test methods are described.</p> <p style="text-align: right;">A. L.</p>																									
AS 8-51 A METALLURGICAL LITERATURE CLASSIFICATION																									
1ST GROUP													2ND GROUP												
3RD GROUP													4TH GROUP												

KOSTENKO, M. P.

ed. by M. P. Kostenko
"Electrical Engines", published by State Publishers of Energetic Literature,
Moscow, 1949

PA 167T36

USSR/Electricity - Power Systems
Network Analyzers

Sep 50

"Method of Studying Stability by Means of Electrodynamic Models," Prof M. P. Kostenko, Correspondent, Acad Sci USSR, Leningrad Polytech Inst
Ismail Kalinin

"Elektrichestvo" No 9, pp 5-16

Since application of mathematical means is difficult in studying static and dynamic stability of parallel operation of complex power systems, miniature and long power-transmission lines, from scale operation is very important.

167T36

Sep 50

USSR/Electricity - Power Systems
(Contd)

calculations and experiments, concludes accurate results are possible with laboratory models of rotating machines of all types.

167T36

KOSTENKO, M. P., Prof

KOSTENKO, M. P., Prof

USSR/Electricity - Machines, Electric Mar 51
Harmonics

"Determining the Fundamental Frequency and the Third Harmonic of the Rotor Field and the Field of the Poles in a Salient-Pole Synchronous Machine," Prof M. P. Kostenko, Corr Mem Acad Sci USSR, B. Ye. Konik, Cand Tech Sci, Leningrad Polytech Inst imeni Kalinin

"Elektrichestvo" No 3, pp 11-17

Discusses method of detg the harmonics in the rotor and pole fluxes of salient-pole synchronous machines. Gives curves for detg the amplitude of the fundamental frequency and the 3d harmonic. Submitted 7 Aug 50.

201T22

KOSTENKO, M.P.

USSR/Electricity - Network Analyzers Jun 51
Modeling

"Comments on M. P. Kostenko's 'An Electrodynanic Model for Stability Studies' and Rejoinder by Kostenko," M. S. Libkind, Cand Tech Sci, Power Eng Inst imen, Krzhizhanovskiy, Acad Sci USSR

"Elektrichestvo" No 6, pp 78-80

Kostenko's article appeared in "Elektrichestvo" No 9, 1950. Libkind disagrees with Kostenko's preference of electrodynamic models over network analyzers. He believes that each has its own field of application. Network analyzers, according

to Libkind, are efficient in rapid and accurate investigations of processes whose phys nature is known and expressed in math form (particularly in calcs of the stability of elec systems), and therefore should be used by planning organizations and power systems for practical calcs. Phys models, however, are useful where the nature of the investigated process is unknown, and therefore belong primarily in laboratories of research and educational institutions. Kostenko states that Libkind overestimates the merits of the network analyzer.

200721

KOSTENKO, M. P.

USSR/Electricity - Personalities Dec 51

"Academician V. S. Kulebakin (His 60th Birthday)," V. A. Trapeznikov, M. P. Kostenko, B. N. Petrov, N. V. Gorokhov, V. L. Lossiyevskiy, B. S. Sotskov, M. G. Chilikin, G. N. Petrov, A. N. Laktionov, A. G. Isif'yan, K. S. Bobov, D. A. Gerdetskiy

"Elektrichestvo" No 12, p 88

Kulebakin is very well known in the fields of elec machines, elec equipment, automatic control, and illuminating engineering and has specialized for many years in aviation elec equipment. A major general in the aviation

201787

USSR/Electricity - Personalities Dec 51
(Contd)

engineering service, he was one of the founders of the All-Union Elec Eng Inst and the Inst of Automatics and Telemechan and has headed chairs at the Moscow Power Eng Inst Imeni Molotov and the Air Force Eng Acad Imeni Zhukovskiy.

201787

KOSTENKO, M. P.

USSR/Electricity - Personalities

Jul 51

"Professor V. I. Polonskiy (60th Birthday and 30 Years of Scientific and Teaching Activity)", M. A. Shatelen, M. P. Kostenko, S. A. Rinkevich, B. M. Mordovin, A. P. Sakharov, F. N. Kharadzha, A. Ye. Alekseyev

"Elektrichestvo" No 7, p 94

Polonskiy is a specialist in ship propulsion, with particular emphasis on elec. drive. He has taught at the Naval College imeni Frunze, the Naval Acad imeni Voroshilov, the Leningrad Polytech Inst (Shipbldg Faculty), and the Leningrad Shipbldg Inst. Polonskiy directs the Commission on Elect Propulsion of Ships, Acad Sci USSR, and the Elec Eng Sections of the Sci and Tech Councils of the TsNIMF (Gen Res Inst of the Maritime Fleet) and the Marine Register of the USSR.

199T28

KOSTENKO, M. P.

Aug 52

USSR/Electricity - Personalities

"Professor L. R. Neyman: on His 50th Birthday," A. A. Gorev, P. N. Goryunov, I. A. Zaytsev, A. M. Zalesskiy, M. D. Kamenskiy, M. p. Kostneko, A. G. Lur'ye, M. M. Mikhaylov, M. A. Shatelen, Ye. G. Shramkov

"Elektrichestvo" No 8, pp 92,93

Reviews Neyman's scientific, administrative, and educational work, and organizational affiliations. Specifies following as principal fields of his scientific activity: investigation of phenomena in nonlinear elec circuits with iron; special problems of elec measurements; electromagnetic processes in converter installations ofr transmission of high-voltage dc power; and elec modeling of nonlinear processes in aerohydrodynamic systems

235T48

1. KOSTENKO. M. P.
 2. USSR (600)
 4. Hydroelectric Power Stations
 7. Problems of building hydrogenerators of great capacity for the great communist construction projects, and scientific-research tasks. Izv.AN SSSR. Otd.tekh.nauk no. 9 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

KOSTENKO, M. P.

USSR/Electricity - Scientists

Feb 53

"Professor A. M. Zalesskiy (In connection with His 60th Birthday)," M. A. Shatelen, L. P. Neyman, M. P. Kostenko, I. A. Zaytsev, Ye. G. Shramkov, M. D. Kamenskiy, B. I. Domanskiy, V. A. Belyakov, V. T. Renne, V. P. Andreyev, L. M. Piotrovskiy, B. N. Mikhalev, G. A. Kukekov, Yu. A. Sabinin

Elek-vo, No 2, p 94

Recounts chief events in professional life in Prof Aleksandr Mikhaylovich Zalesskiy, born 27 Nov 1892. Long active in field of high-voltage techniques, he has been Chairman of Administrative Board of VNITOE since 1945.

PA 248T29

KOSTENKO, M. P.

USSR/Electricity - Personalities
High-Voltage
Techniques

Jul 53

"A. A. Gorev (Deceased)," M. A. Shatelen, M. P.
Kostenko, and others

Elektrichestvo, No 7, p 93

Obituary of Prof Aleksandr Aleksandrovich Gorev
(16 May 1884-15 Apr 1953), covering main activities
and achievements of his professional life. Special-
izing in high-voltage techniques, he helped to
create lab facilities as base for Soviet high-volt-
age app building, authored more than 50 published

271T59

works, made great contributions to training of
young engrs, and won Stalin Prize in 1947.

KOSTENKO, M.P., akademik.

Modeling electrical machinery equipment for studying the
stability of parallel operation of electric power systems
connected with long-distance transmission lines. Izv.AN SSSR
Otd.tekh.nauk no.12:1754-1789 D '53. (MLRA 7:2)
(Electric machinery)

KOSTENKO, M.P.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210012-0"
The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of
science and inventions announces that the following scientific works, popular scien-
tific books, and textbooks have been submitted for competition for Stalin Prizes for
the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Kostenko, M.P.	"An Electrodynamic Model	Institute of Automatics and
Latmanizov, M.V.	of a Power System"	Telemechanics, Academy of
Urusov, I.D.		Sciences
Ivanov, V.I.		
Ryzhov, P.I.		
Sokolov, T.N.		
Semenov, V.V.		
Zherebin, F.I.		

KOSTENKOV, M.

Reactions abroad to the declaration of the Governments of the USSR and the Federal People's Republic of Yugoslavia. Article by Academician M. KOSTENKO, Leningrad:
"The Electrification of Railways and its Perspectives."

SO: Yellow Daily Report, 110, 7 June 55

AID P - 2937

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 2/15

Authors : Kostenko, M. P., Academician, and I. D. Urusov, Kand.
of Tech. Sci.

Title : Electrodynamic models of water-wheel generators of the
Kuybyshev hydroelectric power station

Periodical : Elektrichestvo, 8, 11-19, Ag 1955

Abstract : Considering the imminent placing in operation of the
Kuybyshev Hydroelectric Power Station, the Leningrad
Branch of the Institute of Automation and Remote Con-
trol of the Academy of Sciences, USSR, undertook the
study of certain problems emerging under conditions
of long distance transmission of electric power.
These problems arise particularly when loads near
the limits of system stability requirements. Since
many of these problems cannot be solved by computation
or by mathematical analog methods, electrodynamic
modeling was applied. The most difficult problem was to

AL. VERDYANTS, L.M.; KLETSKIKH, I.N.; KOSTENKO, M.P.; LYUTER, R.A.;
SAPOZHNIKOV, R.A.; CHAPLINSKIY, S.K.; CHEKHOVIN, K.O.

I. V. Tokov; obituary. Elektrichestvo no.12:77 D '55. (MLRA 9:3)
(Tokov, Ivan Vasil'evich, 1901-1955)

KOSTENKO, M. P., Academician, AND ZAVALISHIN, D. A. Doctor of Technical Sciences.

"State of and Tasks in the Development of Electric Drives With Frequency, Amplidyne, and Electron-Ion Control." a paper given at the Conference on Scientific Problems of Production Automation, Moscow State U. 15-20, Oct 56.

KOSTENKO, M.P.; KULEBAKIN, V.S.; LARIONOV, A.N.; PETROV, G.N.;
NITUSOV, Ye.V.; BOGOTAVLENSKIY, V.N.; RUDAKOV, V.V.; KOLBASNIKOV,
M.V.

M.V. Gorokhov; obituary. Elektrichestvo no.1:95 Ja '56.(MLRA 9:3)
(Gorokhov, Nikolai Vladimirovich, 1896-1955)

KRZHIZHANOVSKIY, G.M.; SHATELEN, M.A.; VINTER, A.V.; KOSTENKO, M.P.; POPKOV,
V.I.; NEYMAN, L.R.; BOLOTOV, V.V.; KAMENSKIY, M.D.; ZALESSKIY, A.M.;
USOV, S.V.

A.A. Morozov; obituary. Elektrichestvo no.12:88-89 D '56.
(Morozov, Aleksandr Aleksandrovich, d. 1956) (MIRA 11:3)

KOSTENKO, M.P., akademik; MEYMAN, L.R.

Electric engineering and higher technical education in Sweden.
Vest.AN SSSR 26 no.11:66-71 N '56. (MLBA 9:12)

1. Chlen-korrespondent Akademii nauk SSSR (for Meyman).
(Sweden--Electric engineering)
(Sweden--Technical education)

KOSTENKO, Mikhail Poliyevktovich

KOSTENKO, Mikhail Poliyevktovich; PIOTROVSKIY, Lyudvik Mar'yanovich;
USSER, A.S., red.; ZABRODINA, A.A., tekhn.red.

[Electric machinery] Elektricheskie mashiny. Moskva, Gos.
energ.izd-vo. Pt.1. [Direct current machinery transformers]
Mashiny postoiannogo toka transformatory. 1957. 464 p. (MIRA 10:12)
(Electric machinery--Direct current) (Electric transformers)

CONFIDENTIAL
SMIRNOV, V.S.; USOV, S.V.; ~~KOSTENKO~~, M.P.; HEYMAN, L.R.; ZAYTSEV, I.A.;
SHRAMKOV, Ye.G.; NESGOVOROVA, Ye.D.; PAL'IDR, Ye.A.

Professor L.M. Piotrovskii; on his 70th birthday and 45th anniversary of scientific and pedagogical activities. Elektrichestvo no.2:93 P '57. (MLRA 10:3)
(Piotrovskii, Liudvik Mar'ianovich, 1886-)

KOSTENKO, M. P. Acad.

"Problems of Automatic Control of Electro-energetic Systems Applying Methods of Electro-dynamic Models,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

9015229

KOSTENKO, M. P. (Acad.); ANDREYEV, V. P. (Acad.)

"New systems of transforming frequency of great power."

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Automatika i telemekhanika, No. 2, p. 182-192, 1957.

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~~KOSTENKO, M.P.; NEYMAN, L.R.; SMIRNOV, V.S.; ZAYTSEV, I.A.; SIDEL'NIKOV, V.V.;~~
~~VORONOV, A.A.~~

Professor B. I. Domanskii; on his 70th birthday. Elektrichestvo
no.3:95 Mr '57. (MIRA 10:4)
(Domanskii, Boris Iosifovich, 1887-)

KOSTENKO, M. P.

AUTHOR: Kostenko, M. P. , Academician

30-10-3/26

TITLE: Scientific Problems Connected with the Creation of the Consolidated Power System in the USSR (Nauchnyye problemy sozdaniya yedinoi energeticheskoy sistemy SSSR)

PERIODICAL: Vestnik AN SSSR, 1957, October, Nr 10, pp. 23-31 (USSR)

ABSTRACT: According to the directions of the 20th Congress of the Communist Party the energy-supplying centers, in the first place as far as they are situated in the European part of Russia, will be united in one unified power system. The construction of new power plants in Siberia was launched simultaneously. These installations will be interconnected in the Unified Power System of Siberia during the next Five-year Plan. In a further stage of development the two aforesaid systems will be combined into a single power system of the USSR. Power lines of 400 to 600 kv will connect Moscow with Irkutsk via Kuybyshev, Chelyabinsk, Omsk, Novosibirsk, and Bratsk (see diagram). A series of particular difficult scientific problems arose when planning this tremendous task. It should be mentioned in this context that new engineering methods had to be elaborated for investigating electric power systems.

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Scientific Problems Connected with the Creation of the Consolidated Power System in the USSR

It was found out that the use of electrodynamic models of power systems furnished particularly satisfactory results. Many new problems were studied and solved by means of these power system models, e.g., regulation principle of excitation under consideration of synchronous-generator saturation; use of supporting synchronous capacitors for increase of dynamic stability in power lines; control of primary synchronous-generator motors in accordance with the hydraulic impact in turbines; testing of new relay protection and linear automation equipment. The construction of the Consolidated Power System of the USSR requires further development of the electric industry. Turbo-generators of 300 MW and more, water-wheel generators of 200, 300 MW and more must be developed and constructed. New methods should be adopted in the field of designing transformers. The largest transformer hitherto under construction is a 370-MW transformer in a three-phase group delivering 420 kv at its step-up terminal. In the new system this transformer will only range as normal transformer. There are 1 figure and 1 Slavic reference.

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110-12-17/19

... ON REACTIVE POWER BY MEANS OF CONTROLLED VALVES.

rectifier with a series-connected capacitor. The experimental equipment is described and the calculated voltage and current curves given. They are shown to be in good agreement with the experimental curves.

Certain fundamental difficulties in controlling a circuit of this kind are described. The authors of the article under discussion have arrived at wrong conclusions about the amount of power required for control, and the reasons for this are explained with reference to the oscillograms in Figs. 4 and 5 of the present article.

A rectifier with series capacitors has a minimum reactive power, so that for smooth control to zero capacitative current compensating reactors must be provided. Very high reverse voltages will occur on the valves under certain conditions. The power that it is necessary to instal is considered closely and shown to be much greater than the previous authors supposed. It could be reduced by providing other methods of compensation for normal conditions and using the rectifier installation only for transient and fault conditions. Unfortunately, the disadvantages of the circuit then appear most clearly. The merits of using a rectifier with a capacitor in series therefore requires further

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study, particularly with ignition angles close to 90° . In the inductive condition it cannot be regulated smoothly from zero, but smooth transition from the one condition to the other is not possible. However, the proposed circuit appears to have certain advantages, and in particular, low inertia.

It is stated that rectifier-inverter installations with series capacitors can only work with a capacitative load if the transformers have a fixed ratio. The limitations that this introduces are explained. The rectifier-inverter circuit has the same general properties as the rectifier circuit: there is a minimum capacitative current; when the reactive power output is increased the utilisation of the static condensers is decreased and smooth transition from capacitative to inductive current is not possible. The circuits differ in that the rectifier-inverter circuit can reduce the limiting value of the capacitative current by circulating active power. However, this circulation of active power impairs the utilisation of the static capacitors, as is shown in Fig.8. Thus, the rectifier-inverter circuit offers no advantages and is not recommended. It is considered that the subject requires further study.

The article is followed by brief contributions to discussion on the same paper, as follows:

On the Control of Reactive Power by Means of Controlled Valves. 110-12-17/19

KOSTENKO, M.P., akademik.

Awaked power. Znan. sila 32 no.3:10-14 Mr '57.
(China--Hydroelectric power stations)

(MLBA 10:6)

PHASE I BOOK EXPLOITATION 885

Kostenko, Mikhail Poliyevktovich and Plotrovskiy, Lyudvik
Mar'yanovich

Elektricheskiye mashiny. ch. 2: Mashiny peremennogo toka (Electric Machinery. Pt. 2: Alternating-Current Machinery) Moscow, Gosenergoizdat, 1958. 651 p. 50.000 copies printed.

Ed.: Vol'dek, A. I.; Tech. Ed.: Zabrodina, A. A

PURPOSE: This book is approved by the ministry of Higher Education of the USSR as a textbook for students of power-engineering and electrical-engineering vuzes. It may also be useful to electrical engineers engaged in the production and operation of electric machines.

COVERAGE: The book presents fundamentals of the theory of d-c and a-c electric machines and describes the principles of their construction and operation. This second edition is devoted to a-c synchronous and induction machines and commutator machines

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KOSTENKO, M.P., akademik; ZAVALISHIN, D.A., prof.; SHCHEDRIN, N.N., doktor
tekhn. nauk; SALITA, P.Z., inzh.; VAZHNOV, A.I., kand. tekhn. nauk,
doks.; ROZOVSKIY, Yu.A., kand. tekhn. nauk; MARCHENKO, Ye.A., kand.
tekhn. nauk.; POLYAK, G.I., inzh.; VENIKOV, V.A., doktor tekhn. nauk, prof.

Dynamic models of power systems. Elektrichestvo no.2:78-85 P '58.

(MIRA 11:2)

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(Electric networks)

KOJENKO, M.P., akademik.

Problems in the electrification of railroads. Elektrichestvo no.2:
85-93 P '58. (MIRA 11:2)

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(Railroads--Electrification)

AUTHORS: Kostenko, M. P., Academician 30-58-4-2/44
Glebov, I. A., Candidate of Technical Sciences

TITLE: Electrodynamic Modelling as Scientific Research Method of Power Engineering Problems (Elektrodinamicheskoye modelirovaniye kak metod nauchnogo issledovaniya problem energetiki)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 4, pp. 13 - 24 (USSR)

ABSTRACT: The development of energetic systems confronts science with numerous technical and economic problems. To them belong, besides others, the stability increase of complicated energy-systems, automatic voltage- and frequency-control of combined energy-systems, increase of the transmission-range of long distance electricity-transmissions, cooperating of a.c. and d.c. transmissions and others. The solution of these problems wants new research-methods to which belong electrodynamic modelling and modern calculating machines. In the last ten years electrodynamic models have been constructed at the Institute for Electromechanics of the AS USSR, the Moscow Institute for Power Engineering, the Scientific Research Institute of d.c., the Leningrad Polytechnical Institute, and others. The results of these researches were used by the planning committees when they worked out long distance electricity transmissions (Moscow

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Electrodynamic Modelling as Scientific Research Method
of Power Engineering Problems

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GES, Moscow GES). The essential elements of an electrodynamic model are: synchro generators, transformers, lines, synchronous compensating-devices and motors, asynchronous motors, mercury-steam-vapor rectifiers, illumination load. Model-aggregates of a power of 15-30 kVA are regarded as the best corresponding ones, but they should be universal enough to meet all demands of research. The dimensions of water pipes are determined by the differential-equations by N. Ye. Zhukovskiy. Figure 1 shows the basic scheme of a model-hydroaggregate with ion excitation-system, figure 2 shows model-aggregates and transformers. In order to save copper and to reduce the influence of contact-connections it is expedient to use voltages of 2-3 kV, but for the driving of electric machines it is more convenient to use voltages of 220-380 V, which makes necessary the use of transformers. Furthermore the authors mention that the characteristics of the energy-systems are not yet satisfactorily investigated which complicates the modelling and calculation of reception energy-systems. Therefore the experiments to determine the static and dynamic characteristics of energy-systems should be carried on. The voltage-increasing transformers, connections and transformers of the energy-system are combined by a special

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